

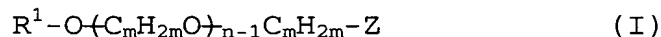
AMENDED CLAIMS

[received at the International Office on February 07,
2005, original claims 1-16 replaced by amended
claims 1-11]

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1. The use of random comb polymers which are obtainable by free-radical copolymerization of a vinylic poly(alkylene oxide) compound (A) of the general formula (I)

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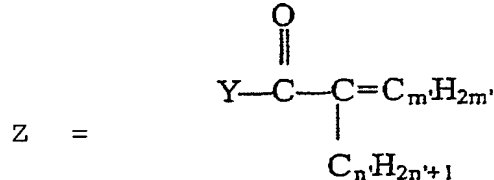
where

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R^1 = hydrogen, a C_1 - C_{20} -alkyl radical, a cycloaliphatic C_5 - C_{12} -cycloalkyl radical, a substituted or unsubstituted C_6 - C_{14} -aryl radical,

m = 2 to 4,

n = 1 to 250,



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Y = O or NR^2 ,

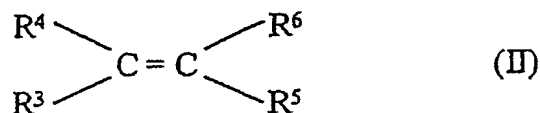
R^2 = hydrogen, a C_1 - C_{12} -alkyl radical, a C_6 - C_{14} -aryl radical, $-C_mH_{2m}(O-C_mH_{2m})_{n-1}OR^1$,

m' = 1 to 4 and

n' = 0 to 2,

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with an ethylenically unsaturated monomer compound (B) of the general formula (II),



where

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R^3 = H, CH_3 , $COOH$ or a salt thereof, $COOR^7$ or $CONR^7R^7$,

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- $R^4 =$ H, a substituted or unsubstituted C_6-C_{14} -aryl radical,
 $R^5 =$ H, CH_3 , $COOH$ or a salt thereof, $COOR^7$, $CONR^7R^7$, a substituted or unsubstituted aryl radical or OR^8 , PO_3H_2 , SO_3H , $CONH-R^9$,
 $R^6 =$ H, CH_3 or CH_3COOR^7 ,
 $R^7 =$ H, C_1-C_{12} -alkyl, C_1-C_{12} -hydroxyalkyl, C_1-C_{12} -alkylphosphate or -phosphonate or a salt thereof, C_1-C_{12} -alkylsulfate or -sulfonate or a salt thereof,
 $-C_mH_{2m}(O-C_mH_{2m})_{n-1}OR^1$,
 $R^8 =$ acetyl and
 $R^9 =$ C_1-C_{12} -alkylphosphate or -phosphonate or a salt thereof, C_1-C_{12} -alkylsulfate or -sulfonate or a salt thereof,
 R^3 and R^5 together form $-O-CO-O-$,
by the "catalytical chain transfer (CCT)" method,
as dispersants for aqueous suspensions of solids.
2. The use as claimed in claim 1, characterized in that the aryl radicals R^1 are substituted by hydroxyl, carboxyl or/and sulfonic acid groups.
3. The use as claimed in claim 1 or 2, characterized in that, in the formula (I), $m = 2$ or 3 and $n = 5$ to 250 .
4. The use as claimed in any of claims 1 to 3, characterized in that, in the formula (I), $m'=1$ and $n'=0$ or 1 .
5. The use as claimed in any of claims 1 to 4, characterized in that, in the formula (II), R^3 and $R^4 = H$, $R^6 = H$, CH_3 and $R^5 = COOR^7$, PO_3H_2 or $CONH-R^9-SO_3H$.
6. The use as claimed in any of claims 1 to 5,
- AMENDED SHEET (ARTICLE 19)

characterized in that, in the formula (II), R^3 and $R^4 = H$, $R^6 = CH_3$, $R^5 = COOH$ or a salt thereof or $COOR^7$ and $R^7 = C_1-C_6$ -hydroxyalkyl.

- 5 7. The use as claimed in any of claims 1 to 6,
characterized in that R^5 is a carboxylic acid salt
selected from among alkali metal, alkaline earth
metal and ammonium salts.
- 10 8. The use as claimed in any of claims 1 to 7,
characterized in that the molar ratios of the
vinylic poly(alkylene oxide) compound (A) to the
ethylenically unsaturated monomer compound (B)
15 have been set to from 1:0.01 to 1:100, preferably
from 1:0.1 to 1:50.
9. The use as claimed in any of claims 1 to 8,
characterized in that the comb polymers are used
in an amount of from 0.01 to 5% by weight, based
20 on the suspension of solids.
10. The use as claimed in any of claims 1 to 9,
characterized in that the suspension of solids
comprises hydraulic binders based on cement, lime,
25 plaster of Paris and anhydrite.
11. The use as claimed in any of claims 1 to 10,
characterized in that the suspension of solids
comprises inorganic particles selected from the
30 group consisting of ground rock, ground silicate,
chalk, clays, porcelain slips, talc, pigments and
carbon black.